



# *Hytec Drivers*

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# General

- All Hytec Drivers are Open Source.
- All support VxWorks and EPICS 3.13.
- All being migrated to EPICS 3.14.
- Linux Versions being produced.
- RTEMS Version being produced.
- Available Website and CVS at PSI Switzerland.



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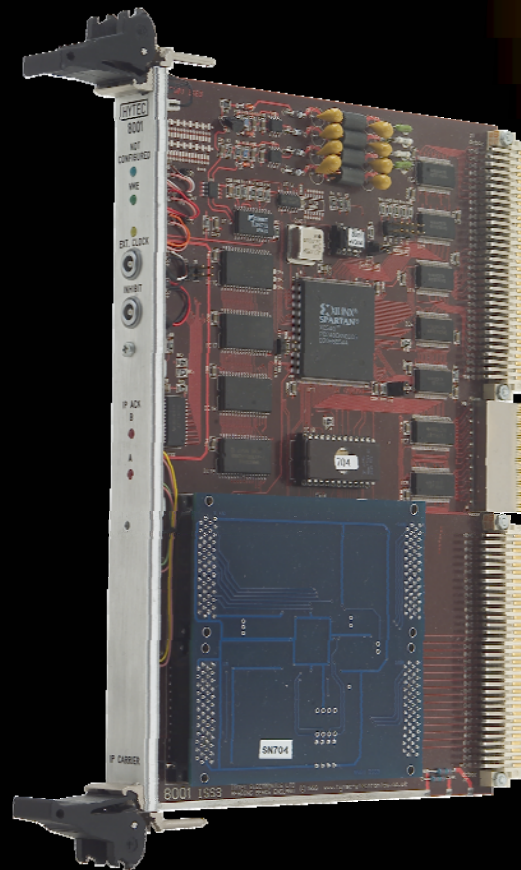
# *Present Range of EPICS Drivers*

- 8001 Digital I/O
- 8401 8 x 16 Bit ADC
- 8402 16 x 16 Bit DAC
- 8403 16 x 18 Bit ADC
- 8407 16 Bit Fast ADC
- 8505 Digital I/O
- 8512 TTL Counter
- 8513 Rotary Encoder Counter
- 8515 8 x RS232
- 8516 8 x RS422/485
- 8601 Quad Stepper Motor



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# *8001 Digital Input/Output Card*



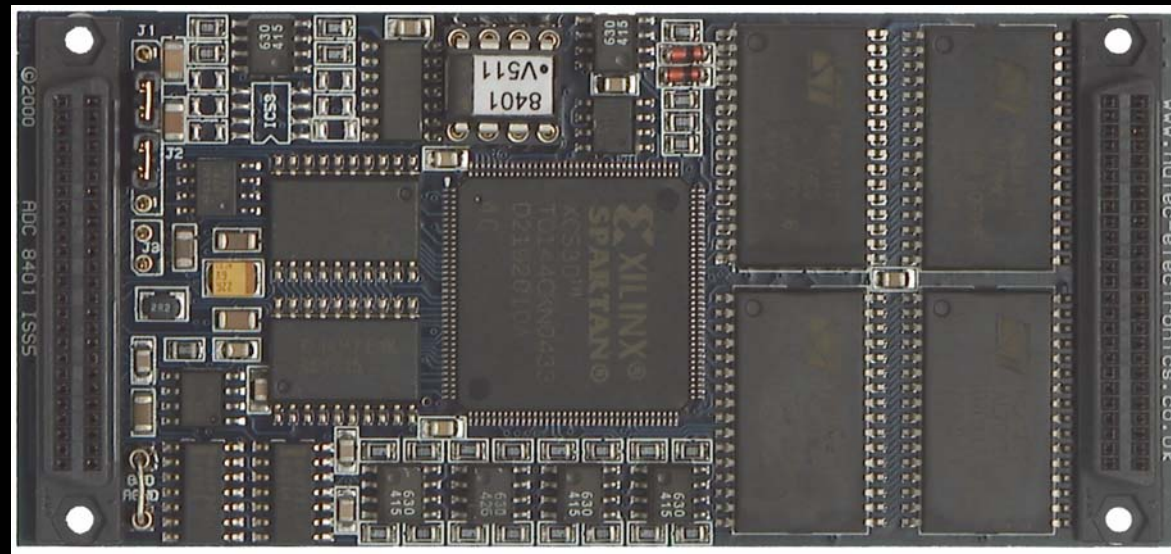
# *8001 Digital Input/Output Card*

- 8001 Digital I/O VME Card.
- 64 Bit Programmable I/O
- Can be used as 32 Bit Digital I/O Plus 2 IP Card Slots.
- Programmable contact bounce eliminator
- Input scanner with 1Mb event memory



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# 8401 ADC IP Card



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# 8401 8 x 16 Bit ADC

- 8 Channel 16 Bit simultaneous sampling ADC
- Can be Single Ended or Differential
- Sample Rate 1Hz-100KHz (Int / Ext Clock)
- External or Software Trigger
- Calibrated Conversions
- Max, Min, RMS, Mean, Max Average
- AI and WF (2Mb on-board) Record Support



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## *New IP Cards - 8407*

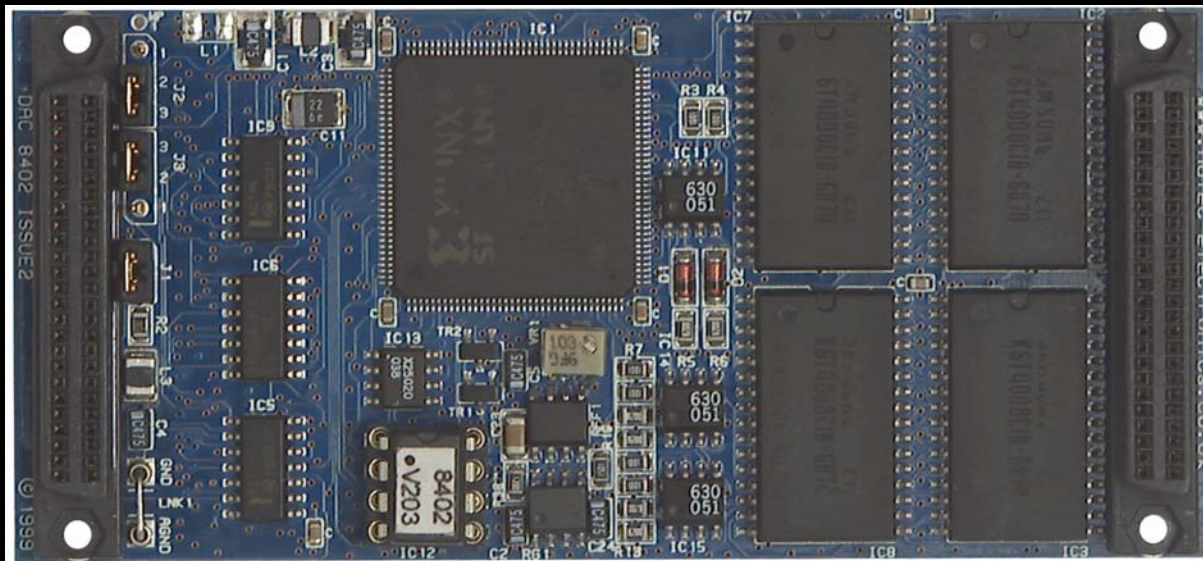
- Super fast 8401, access at 32MHz.
- Supports 4 Card Read via VME MBLT
- 16 x 16 Bit Channels.
- Linux Driver only at present.



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# 8402 DAC IP Card



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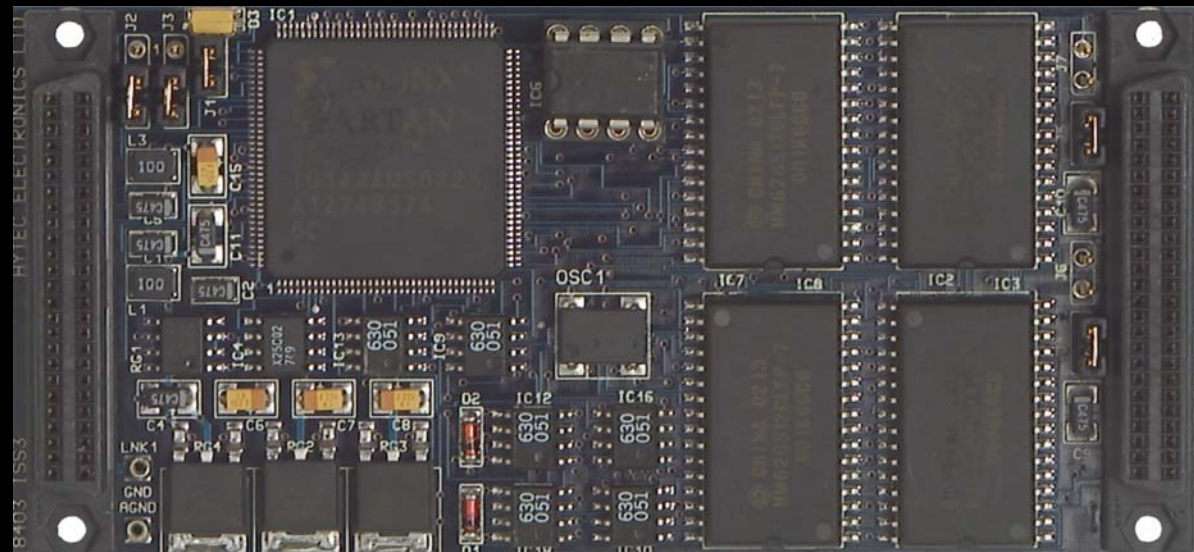
# 8402 16 x 16 Bit DAC

- 16 Channel 16 Bit DAC
- +/- 10V Single Ended Outputs
- Sample Rate 1Hz-20KHz (Int / Ext Clock)
- External or Software Trigger
- Calibrated Conversions
- Max, Min, RMS, Mean, Max Average
- AO and WF (2MB on-board) Record Support



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# 8403 DAC IP Card



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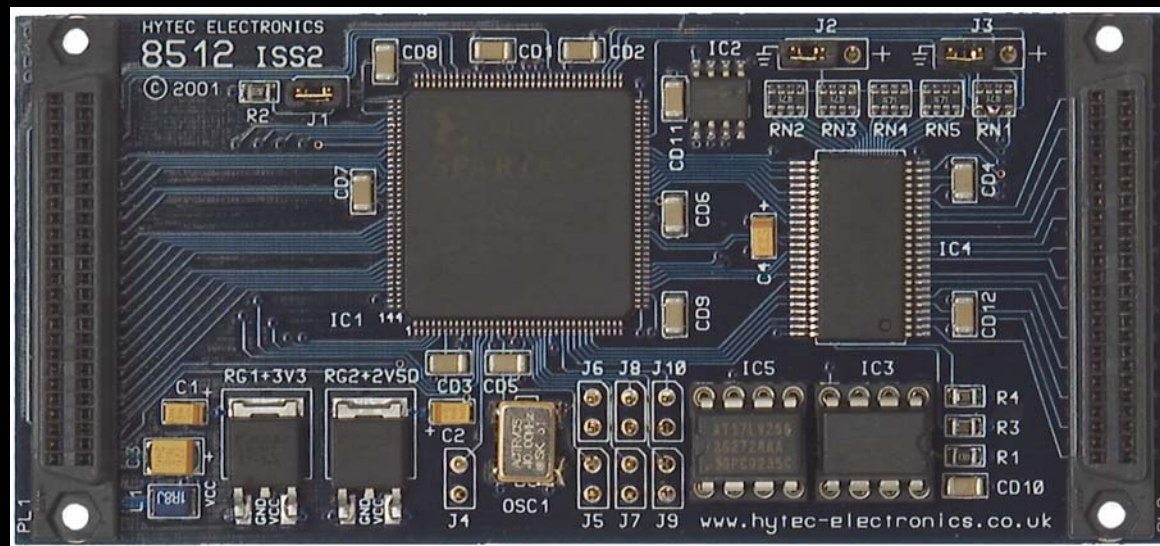
# 8403 16 x 18 Bit DAC

- 16 Channel 18 Bit ADC
- Can be set-up Single Ended or Differentially
- Specifically support PTR / Thermocouples
- Sample Rate 1Hz-200Hz (Int / Ext Clock)
- Calibrated Conversions
- Max, Min, RMS, Mean, Max Average
- AI and WF Record Support



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# 8512 Counter IP Card



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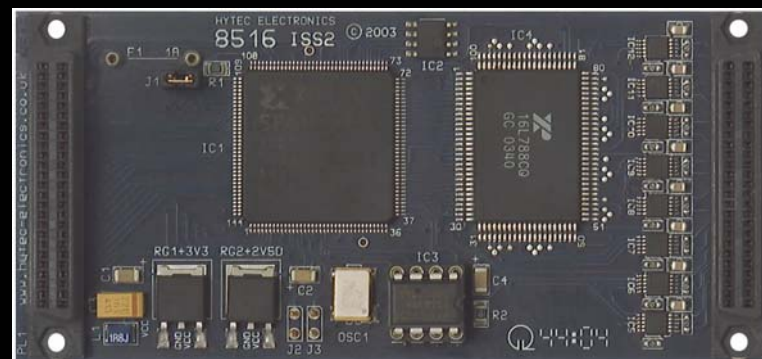
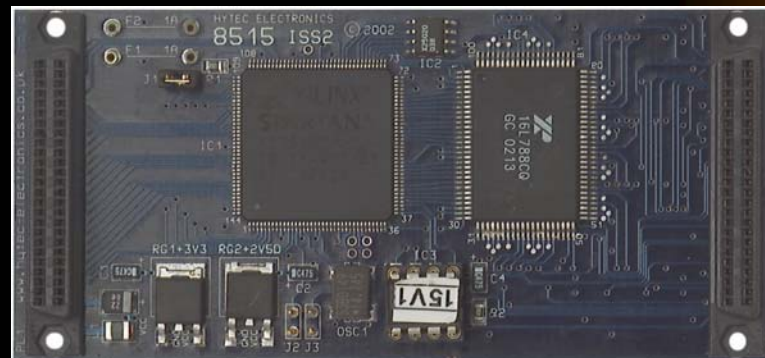
# 8512/3 Counters

- 4 / 16 Channel 32 Bit Counters
- Limit Switch Interrupts configurable to Reset Counter or Capture Present Count
- AI, AO and MBBI Record Support
- Probably next to support asynDriver



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# 8515/6 Serial IP Cards



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# *8515/6 Octal Serial Driver*

- 8 Independent Channels of RS232/422/485
- 64 byte TX and RX FIFO for each channel
- Selectable Interrupt Driven or Polled
- RS485 Selectable Revertive Data
- RS485 TX Hold Delay /Auxiliary Config
- asynDriver (Many Many Thanks to Johnny Tang and Marti Kraimer).



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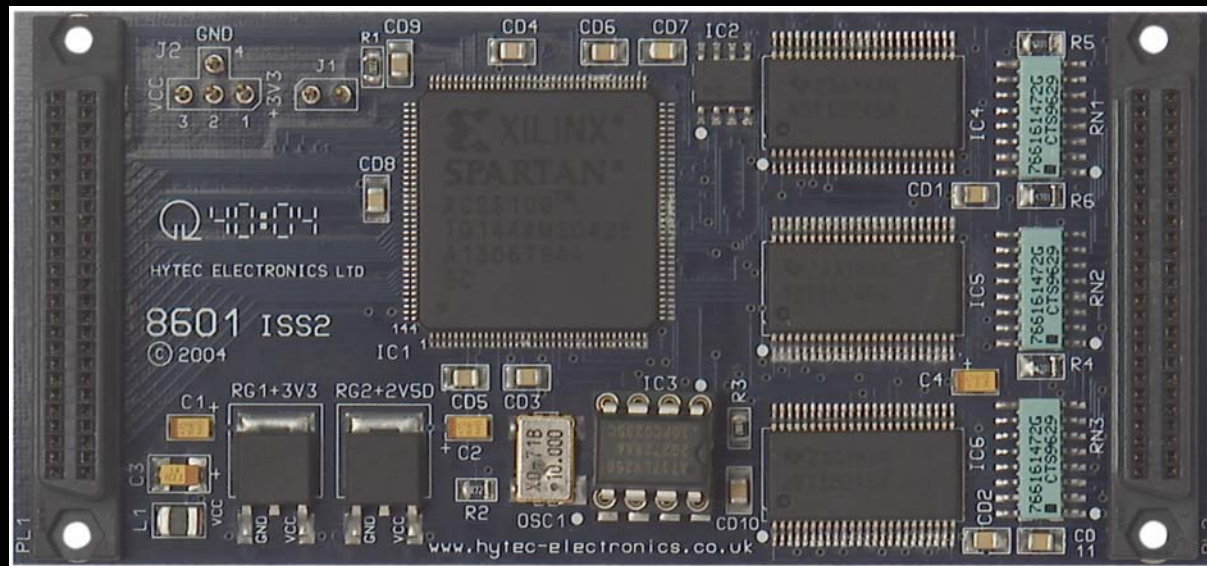
# *New IP Cards - 8505*

- 8505 Digital I/O IP Card.
- Fully programmable I/O.
- Many Thanks Paul Hamadyk (Diamond Light Source) for VxWorks/EPICS 3.13 Driver.



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# 8601 Stepper Motor IP Card



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# *8601 Quad Stepper Motor Driver*

- 4 Independent Stepper Motor Channels
- Rotary Encoder support for each channel
- Min, Max, Home Limit Switch Input
- Independent Fault Input for each channel
- Designed against EPICS Motor Record
- asynDriver being supported



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